Center Independent Research & Development: GSFC IRAD

small UAS Control Center

Completed Technology Project (2013 - 2014)

Project Introduction

This new asset will provide the Wallops Range and the WFF Aircraft Office (WFFAO) with the operational environment required for the assurance of safe and successful UAS flight operations for scientific, military, and commercial research. Extend the capabilities of the WFFAO to provide efficient, responsive, and reliable UAS operations and enable scientists to communication with their onboard experiments.

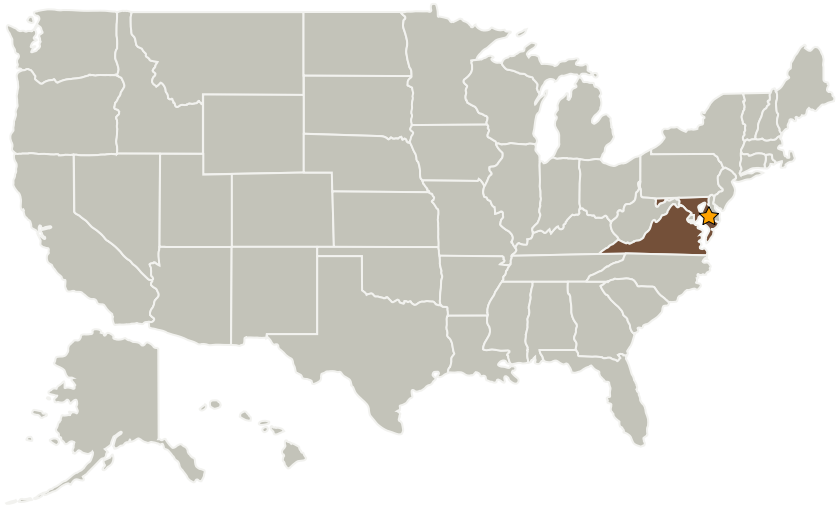
This task is to develop a small Unmanned Aerial System Control Center (sUASCC) to enable the Wallops Flight Facility Aircraft Office (WFFAO) to fly UASs and to enable scientist to communicate with their experiments. The sUASCC will extend the capabilities of the WFFAO to provide efficient, responsive, and reliable UAS operations.

Anticipated Benefits

This project will interface with 2014 IRAD "Optical scanning and science data Telemetry subsystems for A UAS-enabled hyperspectral radiometer".

This project will benefit and support earth science mission both now and in the future.

Primary U.S. Work Locations and Key Partners



SED

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Organizational Responsibility

Responsible Mission Directorate:

Mission Support Directorate (MSD)

Lead Center / Facility:

Wallops Flight Facility (WFF)

Responsible Program:

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Organizations Performing Work	Role	Type	Location
★Wallops Flight Facility(WFF)	Lead Organization	NASA Facility	Wallops Island, Virginia

Primary U.S. Work Locations	
Maryland	Virginia

Images

SED Logo
SED
(https://techport.nasa.gov/image/26339)

Project Website:

http://aetd.gsfc.nasa.gov/

Project Management

Program Manager:

Peter M Hughes

Project Managers:

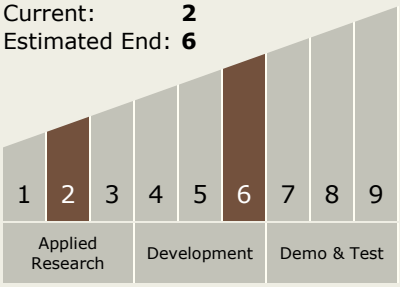
Jacqueline J Le Moigne
Daniel A Mullinix

Principal Investigator:

Robert K Stancil

Technology Maturity (TRL)

Start: **2**
Current: **2**
Estimated End: **6**



Technology Areas

Primary:

- TX16 Air Traffic Management and Range Tracking Systems
  - TX16.1 Safe All Vehicle Access